HOUGHTO-SAFE 1120 E

Fire Resistant Hydraulic Fluid (Type HFDR – phosphate ester)

DESCRIPTION

HOUGHTO-SAFE 1120 E is a synthetic hydraulic fluid based on organic phosphate ester and having a viscosity grade of ISO VG46.

Its high lubricity and anti-wear characteristics ensure reliable protection of hydraulic systems and components, even at high operating temperatures.

APPLICATIONS

A direct substitute for mineral-based hydraulic oils, HOUGHTO-SAFE 1120 E reduces risks where hydraulic equipment operates near flames, hot surfaces or molten metals.

It is particularly suited to systems that are subject to high temperature operation, beyond the capability of waterbased fluids.

HOUGHTO-SAFE 1120 E is respected worldwide in steel and aluminium production, pressure die-casting, glassmaking, polymer forming and many other high fire risk industries.

RECOMMENDATION FOR USE

Use as supplied, without dilution.

TYPICAL PHYSICAL PROPERTIES

Appearance	Colourless / pale straw liquid
Specific Gravity @ 15.5°C	1.16
Kinematic Viscosity @ 100°C cSt	5.3
Autolgnition Temperature °C (ASTMD92)	545
Kinematic Viscosity @ 40°C cSt	46
Kinematic Viscosity @ 40°C cSt	
Pour Point °C	-18
Flash Point °C (ASTMD92)	240
Fire Point °C (ASTMD92)	335

BENEFITS

- o Improved security against fire
- Longer plant / equipment life, with fewer failures
- Lower spend on maintenance and repairs
- o Increased plant availability
- Reduced energy consumption
- o Increased productivity

ADDITIONAL PRODUCT DATA

HOUGHTO-SAFE 1120 E meets or exceeds the requirements of the C.E.C. (Luxembourg 7th Report).

HOUGHTO-SAFE 1120 E passes ASTMD2882 pump tests, with under 5mg weight loss at 140bar.

HOUGHTO-SAFE 1120 E passes IP135 / ASTMD665A corrosion tests and satisfies the requirements of CETOP R48H on steel, copper, brass and anodised aluminium.

HOUGHTO-SAFE 1120 E is low foaming, to minimise the risk of cavitation and air entrainment. In tests to IP146 it gives a result of 230/0 at 24°C.

HOUGHTO-SAFE 1120 E resists oxidation and thermal breakdown at high temperatures, retaining its original characteristics with no sludge formation.

RELATED PRODUCTS

Houghton specialises in fire resistant fluids of all categories, under the brands HYDROLUBRIC, HOUGHTO-SAFE, ISOCOR and COSMOLUBRIC. We complement these with a wide range of oil based hydraulic and lubricating fluids, under HOUGHTO-DRIVE and Sta-Put brands.

For more information, please contact your local Houghton representative.

STORAGE

Please refer to section 7 of Safety Data Sheets for handling and storage information, including product shelf life. Product should be stored under cover in clean, dry conditions and protected from frost. Recommended storage temperature is usually between 5°C and 40°C unless otherwise specified. Use stock in delivery rotation.

HEALTH AND SAFETY

Safety data sheets are available in accordance with Regulations (EC) No 1907/2006 Annex II and (EC) No 1272/2008.

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